GuardianPlus™
AIR SYSTEMS

INSTALLATION INSTRUCTIONS AND USER MANUAL

VB0052

HEPA Filtration* GSFH1K

HEPA Filtration and Fresh Air Ventilation* GSVH1K

HEPA Filtration, Fresh Air and Heat Recovery* GSHH3K

*Patents pending

RESIDENTIAL USE ONLY
INSTALLER: LEAVE THIS MANUAL WITH CONSUMER.
CONSUMER: USE AND CARE INFORMATION ON PAGES 31 and 35 to 38.

www.GuardianPlusAirSystems.com
www.Broan-NuTone.com 04326 rev 1
Broan-NuTone LLC 99043105

ABOUT THIS MANUAL

Congratulations! Your purchase of this whole-house HEPA filtration, with optional ventilation will allow you and your family to enjoy clean and healthy air throughout your home for years to come!
Please read this manual thoroughly.
Several models are described in this publication. Some details of your unit may be slightly different than the ones shown, as the illustrations are typical ones.

This manual uses the following symbols to emphasize particular information:

⚠ WARNING

Identifies an instruction which, if not followed, might cause serious personal injuries including possibility of death.

CAUTION

Denotes an instruction which, if not followed, may severely damage the unit and/or its components.

NOTE: Indicates supplementary information needed to fully complete an instruction.

We welcome any suggestions concerning this manual and/or the product, or ways to better serve you. Please forward all correspondence at the address below:

Broan-NuTone LLC
926 W. State St.,
Hartford, WI 53027

ABOUT THESE UNITS

⚠ WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON(S) OBSERVE THE FOLLOWING:

1. **This unit is intented for residential installation only.**
2. **Installation must be done in accordance with all applicable codes and standards, including fire-rated construction codes and standards.**
3. **This unit is not designed to provide combustion and/or dilution air for fuel-burning appliances.**
4. **Do not install in a cooking area or connect directly to an appliance.**
5. **Before replacing filters, servicing or cleaning unit, disconnect the power cord from the electrical outlet.**
6. **When cutting or drilling into the wall or ceiling, do not damage electrical wiring or other hidden utilities.**
7. **Do not use this unit with any solid-state speed control device other than wall controls ACCGSC1 or ACCGSC3, provided with the unit.**
8. **This unit must be grounded. The power supply cord has a 3-prong grounding plug for your personal safety. It must be plugged into a mating 3-prong grounding receptacle, grounded in accordance with the national electrical code and local codes and ordinances. Do not remove the ground prong. Do not use an extension cord.**
9. **This unit must be installed in a weatherized location out of direct sunlight and protected from the elements.**
10. **Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in this document.**

CAUTION

1. **For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.**
2. **Intended for residential installation in accordance with the requirements of NFPA 90B.**
3. **For GSVH1K and GSHH3K units only: Be sure to duct air outside. – Do not intake / exhaust air into spaces within walls or ceiling or into attics, crawl spaces, or garage.**
4. **Do not run any air ducts directly above or closer than 2 ft (0.61 m) to any furnace or its supply plenum, boiler, or other heat producing appliance. If a duct has to be connected to the furnace return plenum, it must be connected not closer than 2 ft (0.61 m) from this plenum connection to the furnace.**
5. **The ductwork is intended to be installed in compliance with all local and national codes that are applicable.**
6. **To avoid prematurate clogged filters, turn OFF the unit during construction or renovation.**
7. **Please read the unit's specification label on the product for further information and requirements.**

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1. BEFORE STARTING

1.1 Inspect the Contents of the box

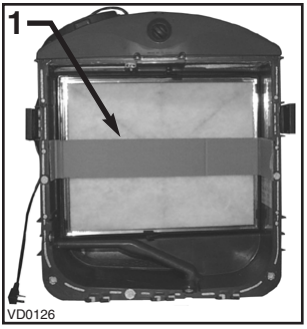
⚠ WARNING

To avoid risk of suffocation, discard the plastic bag wrapping the unit.

- Inspect the exterior of the unit for shipping damage. Ensure there is no damage to the door, door latches, main switch, etc.

CAUTION

Remove the cardboard strip inside the unit (if applicable).



1) Cardboard strip

- Inspect the interior of the unit for damage. Ensure the blower assembly, heat recovery core (model GSHH3K), insulation, dampers (models GSVH1K and GSHH3K), prefilter, HEPA filter, etc. are all intact.
- If the unit was damaged during shipping, contact your local distributor, or Broan-NuTone at 1 800 558-1711.

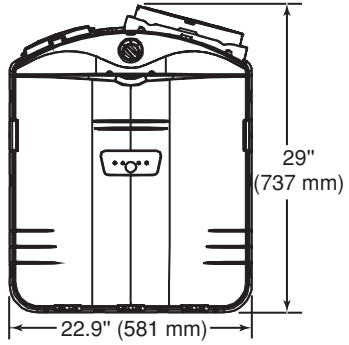
2. TECHNICAL DATA

Models	GSFH1K HEPA Filtration	GSVH1K HEPA Filtration & Fresh Air Ventilation	GSHH3K HEPA Filtration, Fresh Air & Heat Recovery
Weight	34 lbs (15.4 kg)	36 lbs (16.3 kg)	40 lbs (18.2 kg)
Oval shaped duct collars for non-insulated ducts to inside	fits two 8” round ducts		
Oval shaped duct collars for insulated ducts to outside	N/A	fits two 5” or 6” round ducts	
Installation: Suspended or rest on a shelf or floor:	Chains, springs and hooks (provided with the unit) or 4 pads (provided with the unit)		
Electrical Supply	120 Volts AC, 60 Hz		
Power Consum. (Boost) Power Consum. (Normal)	170 Watts 132 Watts	218 Watts 152 Watts	232 Watts 170 Watts

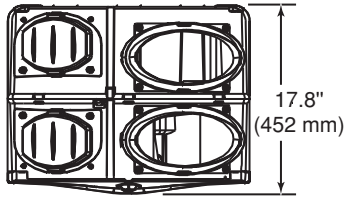
2. TECHNICAL DATA (CONT'D)

2.1 DIMENSIONS

HEPA FILTRATION UNIT, MODEL GSFH1K



FRONT VIEW

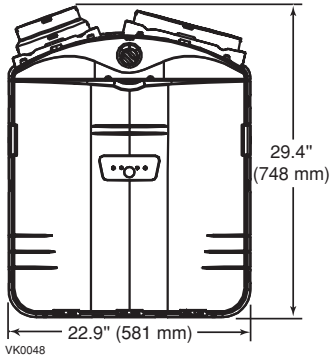


TOP VIEW

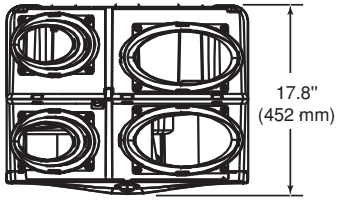
HEPA FILTRATION AND FRESH AIR VENTILATION MODEL GSVH1K

AND

HEPA FILTRATION, FRESH AIR AND HEAT RECOVERY MODEL GSHH3K



FRONT VIEW

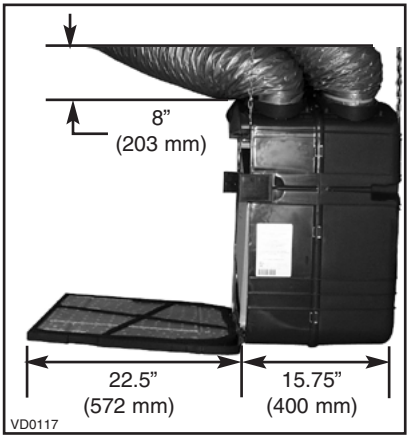


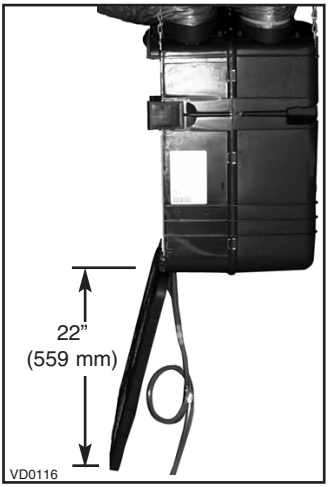
TOP VIEW

2. TECHNICAL DATA (CONT'D)

2.2 Mounting and Servicing Considerations

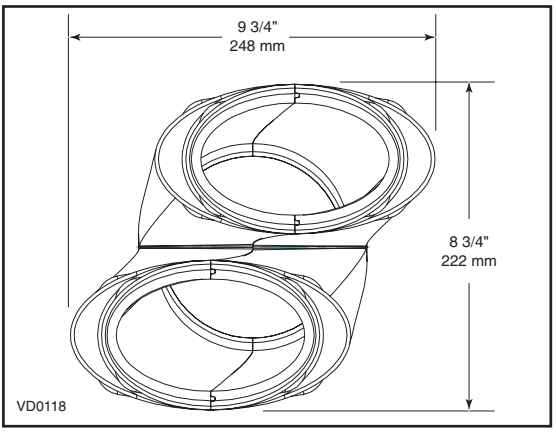
•The two following pictures are showing the minimum clearance needed to open the door completely.





NOTES: 1. The unit's door is removable. For servicing, a minimum of 15" (381 mm) clearance from any obstruction in front of the unit is sufficient to open the door and remove it.
2. A minimum of 8" (203 mm) clearance from any obstruction is required for the ductwork radius turn.

• The joist opening needed to install the Tandem® tansition must be 9 3/4" (248 mm) minimum. Also, the maximum height of the Tandem® transition is 8 3/4" (222 mm). See Tandem® transition end view below.



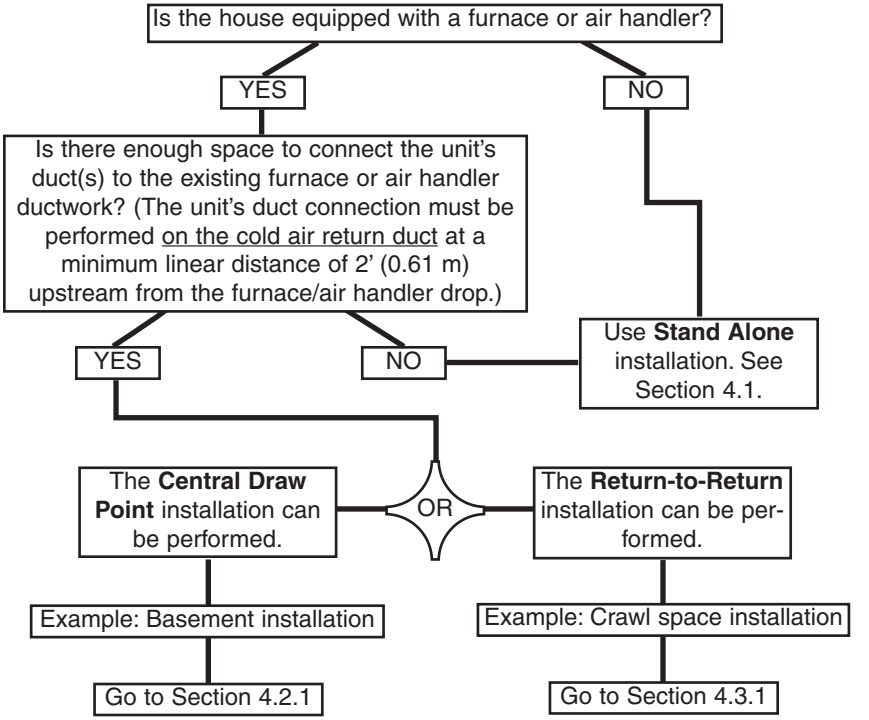
NOTES: 1. If there is not enough space to use the Tandem® tansition, the optional exterior single hood must be installed to bring the fresh outside air to the unit. See Section 5.6 and Section 5.8.
2. When installing a HEPA Filtration model GSFH1K, there is no Tandem® tansition.

3. PLANNING THE INSTALLATION

The Guardian Plus units are versatile appliances capable of delivering filtered air (model GSFH1K) or both filtered and fresh air to your home (models GSVH1K and GSHH3K). Because each installation is different, it is recommended you take the time to plan your installation. The three main areas to plan for are:

- Where to locate the Guardian Plus module
- How to pick-up the room and distribute the filtered or fresh/filtered air
- Where to bring fresh air from outside and exhaust stale air to outside (models GSVH1K and GSHH3K).

Use the following chart to determine the appropriate installation method for the unit.


Is the house equipped with a furnace or air handler?
YES
NO
Is there enough space to connect the unit's duct(s) to the existing furnace or air handler ductwork? (The unit's duct connection must be performed on the cold air return duct at a minimum linear distance of 2' (0.61 m) upstream from the furnace/air handler drop.)
YES
NO
Use **Stand Alone** installation. See Section 4.1.
The **Central Draw Point** installation can be performed.
OR
The **Return-to-Return** installation can be performed.
Example: Basement installation
Example: Crawl space installation
Go to Section 4.2.1
Go to Section 4.3.1

CAUTION

Do not connect the unit on any supply furnace duct (hot air). Connect it only to the cold air return. Do not install duct or duct connector directly above the furnace. Do not connect the plenum connection closer than 2' (0.61m) to the furnace, as measured along the length of the duct.

3. PLANNING THE INSTALLATION

3.1 PLANNING OF THE DUCTWORK

- Keep it simple. Plan for a minimum of bends and joints.
- Keep the length of insulated ducts to the outside of home to a minimum (not for HEPA Filtration model GSFH1K).
- Do not ventilate crawl spaces or cold rooms.
- If the house has two floors or more, be sure to plan for at least one exhaust register on the highest lived-in level.

Use the following table to plan the flexible ducts length.

FLEXIBLE DUCT LENGTH TABLE

	Maximum recommended length to reach 105 cfm	Maximum recommended length to reach 95 cfm
Insulated fresh air duct from outside (6" diameter)	up to 10'	from 10' to 20'
Insulated exhaust air duct to outside (6" diameter)	up to 10'	from 10' to 20'
	Recommended maximum length to reach 270 cfm	Recommended maximum length to reach 240 cfm
Stale air duct from inside (8" diameter)	Combined: 40'	Combined: 60' with stale air duct not to exceed 36'
Filtered air duct to inside (8" diameter)		

CAUTION

Do not attempt to recover the exhaust air from a dryer or a range hood. This would cause clogging of the filters and recovery module (if applicable).

4. TYPICAL INSTALLATIONS

Installations may vary according to the model number, the product's orientation (vertical or horizontal) and the location in the home where the unit is installed. Use the following illustrations as guidelines to help you decide the appropriate installation.

The unit allows for multi positional mounting (vertical or horizontal). It may be hung to the joists (preferred method),or it may be laid down on one of three surfaces, and installed either vertically or horizontally.

NOTE: For more details, see Points 5.3 and 5.4 in Section 5 INSTALL THE UNIT.

In every case, bathroom fans and a range hood should be used as spot ventilation to exhaust stale air. Also, for homes with more than one level, we recommend placing one exhaust register at the highest lived-in level.

There are three installation methods: Stand Alone, Central Draw Point* and Return-to-Return*.

* Different connections to a forced air system.

Multiple furnaces or air handlers may require installation of Guardian Plus on each system for maximum IAQ benefit.

NOTE: A grounded three-prong electrical outlet has to be available within 3 feet from the unit.

4. TYPICAL INSTALLATIONS (CONT'D)

4.1 Stand Alone Installation

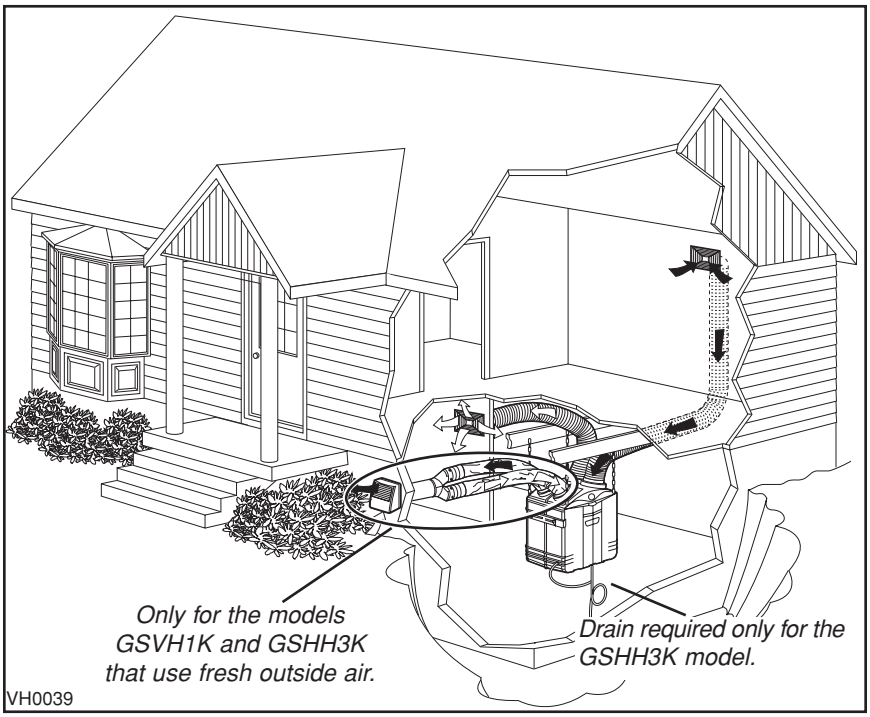
(Primarily for homes with no central air mover or equipped with wall furnaces, radiant hot water or electric baseboard heating.)

4.1.1 Basement

- Ideal for homes without a central furnace in the basement. Allows filtration and a better air circulation throughout the house.
- Easy access to perform the periodic filter maintenance and servicing.
- Offers an ambient temperature above freezing (32°F - 0°C).
- The HEPA Filtration model GSVH1K has no connection to the outside, so all parts encircled are not required.

INSTALLATION CONSIDERATIONS:

- Installing the unit near an exterior wall will shorten the length of the insulated ducts (not necessary for HEPA Filtration only model GSVH1K).
- If a HEPA Filtration Fresh Air & Heat Recovery model GSHH3K is installed, a water drain must be close to collect the run-off.



4. TYPICAL INSTALLATIONS (CONT'D)

4.1 Stand Alone Installation

(Primarily for homes with no central air mover or equipped with wall furnaces, radiant hot water or electric baseboard heating.)

4.1.2 Attic

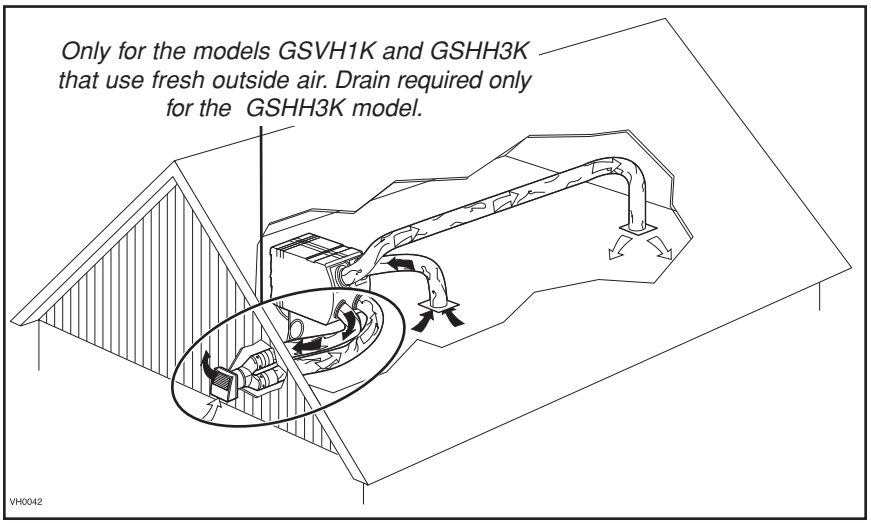
- Ideal for homes without a central furnace, or limited space applications, allows filtration and a better air circulation throughout the house.
- Only one partition to go through to install the registers.
- No visible ducts.
- The HEPA Filtration model GSVH1K has no connection to the outside, so all parts encircled are not required.

CAUTION

When the ambient temperature for the unit location is below freezing (32°F - 0°C), the unit must run continuously to prevent condensation.

INSTALLATION CONSIDERATIONS:

- Installing the unit near an exterior wall will shorten the length of the insulated ducts (not necessary for HEPA Filtration only model GSFH1K).
- If a HEPA Filtration Fresh Air & Heat Recovery model GSHH3K is installed, a water drain must be close to collect the run-off.
- All ducts must be insulated.
- For the HEPA Filtration Fresh Air & Heat Recovery model GSHH3K only, if the ambient temperature around the unit drops below freezing (32°F - 0°C), go to Section 5.10 (Low Temperature Applications) for instructions on drain line protection and other cold environment installation details.



4. TYPICAL INSTALLATIONS (CONT'D)

4.1 Stand Alone Installation

(Primarily for homes with wall furnaces, radiant hot water or electric baseboard heating.)

4.1.3 Garage closet

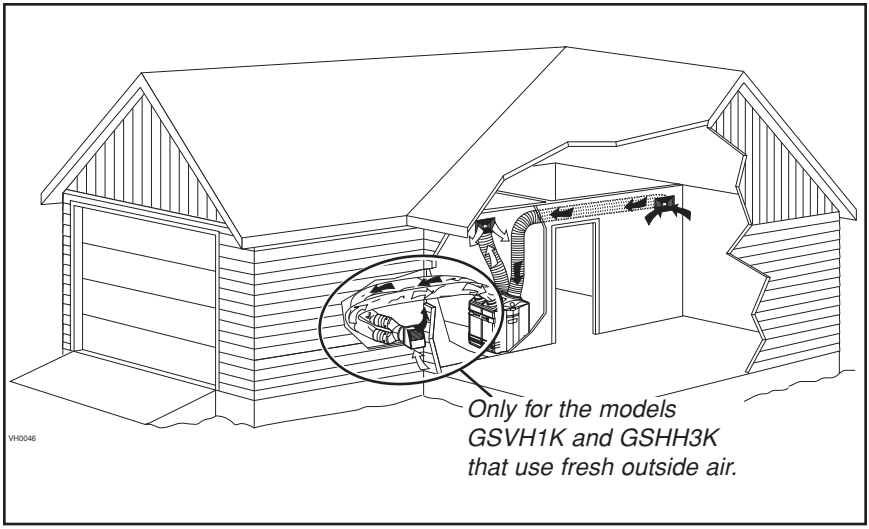
- Ideal for homes without a central furnace, or limited space applications, allows filtration and a better air circulation throughout the house.
- Easy access to perform the periodic maintenance (twice a year).
- The HEPA Filtration model GSFH1K has no connection to outside, so all parts encircled are not required.

CAUTION

When the ambient temperature for the unit location is below freezing (32°F - 0°C), the unit must run continuously to prevent condensation.

INSTALLATION CONSIDERATIONS:

- Installing the unit near an exterior wall will shorten the length of the insulated ducts (not necessary for HEPA Filtration model GSFH1K).
- If a HEPA Filtration Fresh Air & Heat Recovery model GSHH3K is installed, a water drain must be close to collect the run-off.
- All ducts must be insulated.
- For the HEPA Filtration Fresh Air & Heat Recovery model GSHH3K only, if the ambient temperature around the unit drops below freezing (32°F - 0°C), go to Section 5.10 (Low Temperature Applications) for instructions on drain line protection and other cold environment installation details.



4. TYPICAL INSTALLATIONS (CONT'D)

4.2 Central Draw Point Installation

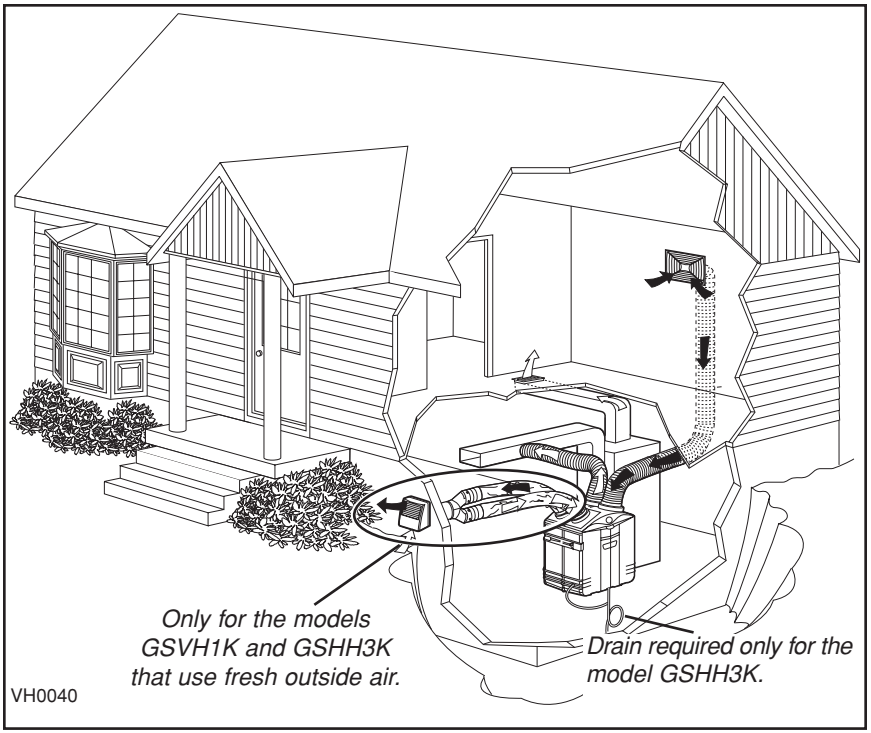
(Connection to a Forced Air System)

4.2.1 Basement

- Simplified installation by using the home's existing ductwork to supply filtered air throughout the house.
- The central draw point should be located in the main area where most of the pollutants are produced.
- The furnace/air handler does not need to run continuously.
- Easy access to perform the periodic maintenance.
- Offers an ambient temperature above freezing (32°F - 0°C).
- The HEPA Filtration model GSFH1K has no connection to outside, so all parts encircled are not required.

INSTALLATION CONSIDERATIONS:

- Installing the unit near an exterior wall will shorten the length of the insulated ducts (not necessary for HEPA Filtration only model GSFH1K).
- If a HEPA Filtration Fresh Air & Heat Recovery model GSHH3K is installed, a water drain must be close to collect the run-off.



4. TYPICAL INSTALLATIONS (CONT'D)

4.3 RETURN-TO-RETURN INSTALLATION (Connection to a Forced Air System)

4.3.1 CRAWL SPACE

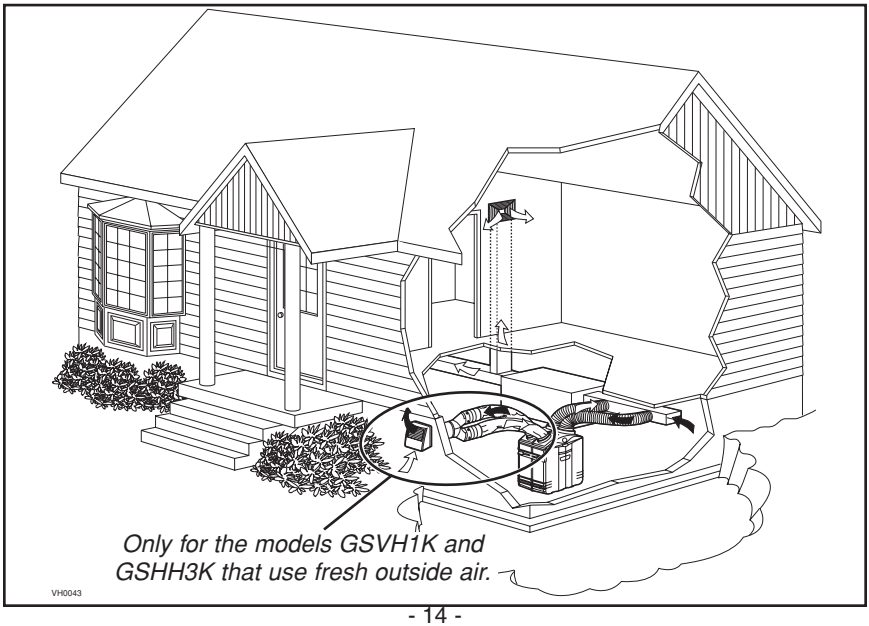
- Simplify the installation by using the existing ductwork.
- Non-visible ducts.
- The HEPA Filtration model GSFH1K has no connection to outside, so all parts encircled are not required.

CAUTION

When the ambient temperature for the unit location is below freezing (32°F - 0°C), the unit must run continuously to prevent condensation.

INSTALLATION CONSIDERATIONS:

- Installing the unit near an exterior wall will shorten the length of the insulated ducts (not necessary for HEPA Filtration model GSFH1K).
- If a HEPA Filtration Fresh Air & Heat Recovery model GSHH3K is installed, a water drain must be close to collect the run-off.
- To avoid the cross-contamination and achieve highest efficiencies, the furnace / air handler blower must always be ON (or the efficiency will be affected).
- The HEPA Filtration Fresh Air Ventilation model GSVH1K needs to be ON all the time, since it doesn't have motorized dampers. If this unit is OFF, then the furnace / air handler will draw cold outdoor air inside.
- All ducts must be insulated.
- For the HEPA Filtration Fresh Air & Heat Recovery model GSHH3K only, if the ambient temperature around the unit drops below freezing (32°F - 0°C), go to Section 5.10 (Low Temperature Applications) for instructions on drain line protection and other cold environment installation details.



5. INSTALL THE UNIT

5.1 Tools and materials

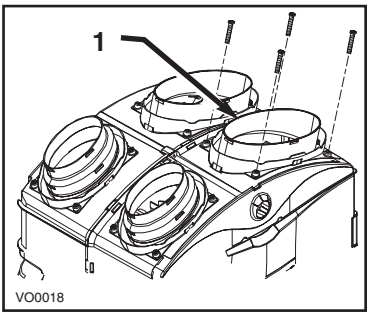
Here are the tools and materials needed to perform the installation:

- Phillips screwdriver #2 or Robertson #1
- Hammer and flat blade screwdriver (for plenum connection installation only, to make holes in existing metal duct)
- Scissors or utility knife (to cut duct tape)
- Duct tape
- Tin snips or metal shear (for plenum connection installation only, to cut ductwork)
- Aluminum duct tape (for plenum connection installation only)
- Jigsaw (except for the HEPA Filtration model GSFH1K)
- Extension cord
- Caulking gun and caulking (except for the HEPA Filtration model GSFH1K)
- 6" Diameter insulated ducting (except for the HEPA Filtration model GSFH1K)
- 8" Diameter insulated ducting.

NOTE: A 3-prong grounded 120 volt AC power outlet must exist or be installed within 3 ft of the unit, prior to unit installation.

5.2 Mount the Ports on the Unit

Mount the 8" oval ports and the 5" to 6" oval ports on the top of the unit using the screws provided in the hardware box (4 screws #8 x 3/4" long per port).



NOTES: 1. Although 4 screws are provided and prefered; only 1 screw per port is required to meet code.

2. The HEPA Filtration only model has no 5" to 6" oval ports.

3. Do not install the front 8" oval port (item **1** in illustration) at this time.

5.3 Installation Using Isolator Pads

If the unit cannot be hung, use the four adhesive square isolation pads provided with the unit. According to your needs and model (with or without drain), you can install the unit either in vertical or horizontal position.

CAUTION

Make sure the unit is level.

CAUTION

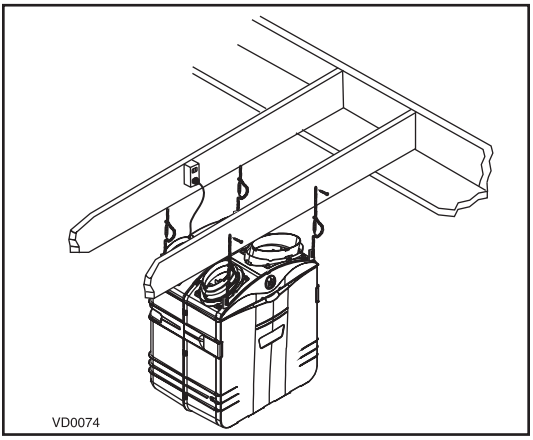
When a HEPA Filtration Fresh Air & Heat Recovery unit model GSHH3K is installed with adhesive isolator pads, keep a minimum clearance of 4" between the unit and the ground (or shelf) for the drain.

5. INSTALL THE UNIT (CONT'D)

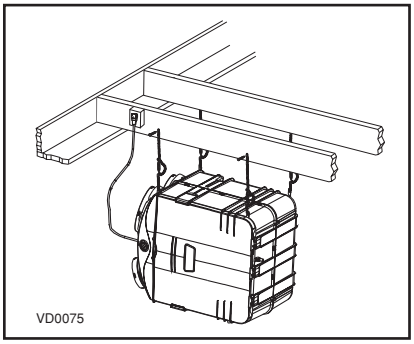
5.4 For Suspended Applications

Use the four chains and springs in the hardware pack provided with the unit. According to your needs and model type, you can install the unit either in a vertical or horizontal position.

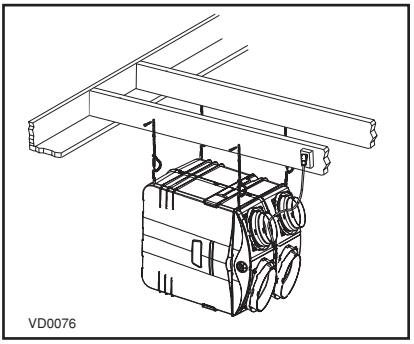
Vertical position - All models



Horizontal position (left side)
All models



Horizontal position (right side)
Models GSFH1K and GSVH1K only



CAUTION

Make sure the unit is level.

- Verify the switch knob is in the OFF position in order to unlock the door. Unlatch the door, using the 2 latches to open and remove by sliding it out of its hinge. Using a screwdriver, remove the two retaining screws of the front plate as shown, and carefully remove the front plate from the unit.

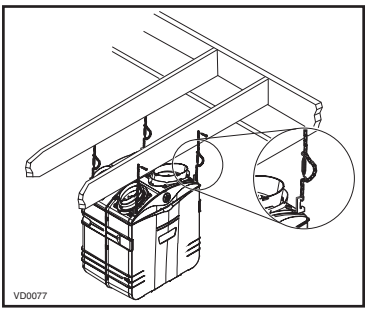
5.4 For Suspended Applications (cont'd)

VO0020

- Insert the four hooks in the square holes and fix them to the unit using four screws #8 - 32 x 3/4".

NOTE: To wire the wall control, go to Section 6.2 to 6.4.

- Reinstall the front plate and the door.


VD0077

- Hang the unit to the joists, using four #8 x 1 1/2" screws, four chains and four spings. See illustration.

5.5 Installing 8" Ducts and Registers

5.5.1 Stand Alone System (as illustrated in Section 4.1)

Stale air collection ductwork

⚠ WARNING

Never install a stale air exhaust register in a closed room where a combustion device operates, such as a gas furnace, a gas water heater or dryer, or a fireplace.

- Install the stale air collection register in the main area where the contaminants are produced: kitchen, living room, etc. Position the register as far from any stairway as possible and in a way the air circulates all the lived-in spaces in the house.
- If the register is installed in the kitchen, it must be located at least 4' (1.2 m) from the range.
- Install the register 6"-8" (152 to 203 mm) from the ceiling on an interior wall OR install it in the ceiling.

Fresh / Filtered air distribution ductwork

- Install the fresh / filtered air distribution register in a large, open area in the lowest level to ensure the greatest possible air circulation. Keep in mind the filtered air register must be located as far as possible from the stale air collection point.
- Install the register 6"-8" (152 to 203 mm) from the ceiling on an interior wall OR install it in the ceiling. The duct length should be at least 15' (4.6 m). (The filtered air will then flow through the room and mix with room air, ensuring a continuous recirculating airflow.)

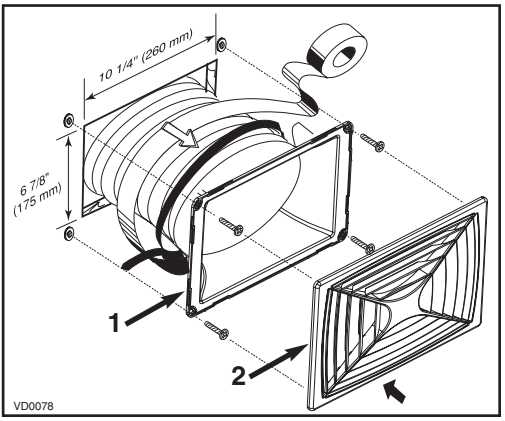
5. INSTALL THE UNIT (CONT'D)

5.5 Installing 8" Ducts and Registers

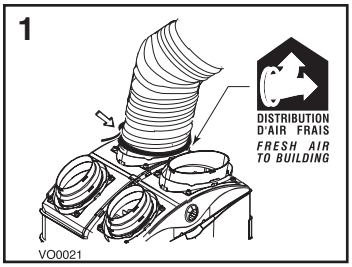
5.5.1 Stand Alone System (as illustrated in Section 4.1)

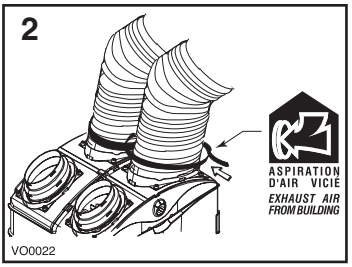
How to connect the 8" flexible duct to the registers and unit's duct connector.

- Once the register location is determined, cut out a 10-1/4" x 6-7/8" (260 mm x 175 mm) hole. Run one end of the 8" flexible duct through the hole and fix it to the duct connector (**1**), using a 30" tie wrap and duct tape. Fix the duct connector to the wall (or ceiling) using its four plastic anchors and #8 x 3/4" screws. Then, snap on the register (**2**).



- Each port is identified on top of the unit (See illustrations below). Using the provided colored sticker dot, identify which duct it is (red dot for stale airflow and blue dot for filtered airflow). Repeat the procedure for the other register.
- Attach the fresh air to building duct (the one with the blue dot) to its corresponding port, using tie wrap (**1**). Then, attach the exhaust air from building duct (the one with the red dot) to the other 8" port (**2**).





NOTE: Use 8" insulated duct only (not included).

5. INSTALL THE UNIT (CONT'D)

5.5 INSTALLING 8" DUCTS AND REGISTERS (CONT'D)

5.5.2 CENTRAL DRAW POINT (AS ILLUSTRATED IN SECTION 4.2)

Stale air ductwork

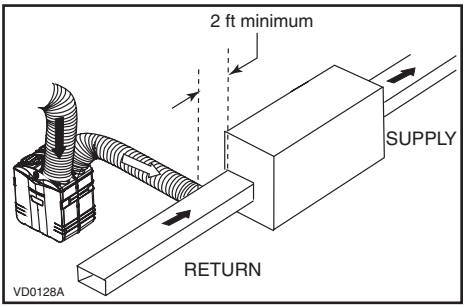
Same as for Stand Alone System, described in point 5.5.1.

Filtered air ductwork (Return side connection)

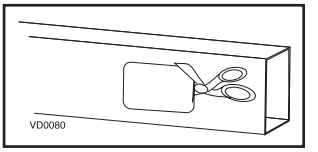
⚠ WARNING

When performing duct connections, always use approved tools and materials. Respect all corresponding laws and/or safety regulations. Please refer to your local building code. Use only UL listed duct tape.

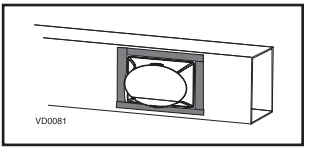
- Trace a 10 -1/4" long x 6 -7/8" high (260 mm x175mm) opening on the furnace/air handler return duct at a minimum linear distance of 2 ft (0.61 m) upstream (return side) from furnace / air handler.



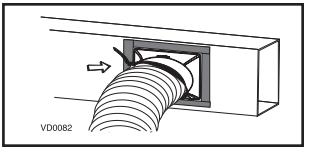
- Using a metal shear or a hammer and a flat blade screwdriver, punch a hole into the furnace/air handler return duct. Then, using metal shear, cut out the rectangular hole.



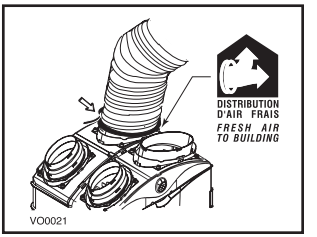
- Fix the duct connector to the furnace / air handler duct using the provided four retaining screws (#8 x 3/4"). Seal with UL approved duct tape.



- Take one end of the 8" flexible duct and slide it over the duct connector. Secure with a tie wrap. Carefully seal the connection with UL approved duct tape. Identify the duct using the blue sticker dot included.



- Attach this duct to the ***FRESH AIR TO BUILDING*** port (see icon on the top of the unit) using tie wrap and duct tape.



5. INSTALL THE UNIT (CONT'D)

5.5 INSTALLING 8" DUCTS AND REGISTERS (CONT'D)

5.5.3 RETURN-TO-RETURN (AS ILLUSTRATED IN SECTION 4.3)

⚠ WARNING

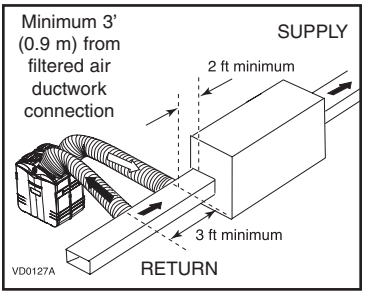
When performing duct connections, always use approved tools and materials. Respect all corresponding laws and/or safety regulations. Please refer to your local building code. Use only UL listed duct tape.

Filtered air ductwork (Return side connection)

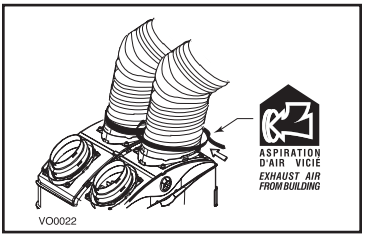
Same as for Central draw Point, described in point 5.5.2.

Stale air ductwork (Return side connection)

- Located the return air inlet duct at least 2' (0.61 m) upstream (return side) from furnace / air handler. Locate the take-off duct opening at least 3' (0.9m) from the filtered air ductwork connection. Proceed as for the filtered air ductwork, but instead of using the blue dot sticker to identify the duct, use the red dot.



- Attach this duct to the ***EXHAUST AIR FROM BUILDING*** port (see icon on the top of the unit) using tie wrap and duct tape.



5.6 INSTALLING INSULATED FLEXIBLE DUCTS (GSVH1K AND GSHH3K MODELS ONLY)

CAUTION

Make sure the insulated ductwork's vapor barrier does not tear during installation.

Use the following procedure for connecting the insulated flexible ducts to the Tandem® transition* (*EXHAUST AIR TO OUTSIDE* and *FRESH AIR FROM OUTSIDE*).

NOTE: If the joists are perpendicular to the ducts, or if the connection to the exterior hood is in a limited area your installation will need two exterior hoods instead of one AirDuo™ exterior hood. In this case, do not use the Tandem® transition. Refer to the optional single hood enclosed instructions.

*Patent pending.

5. INSTALL THE UNIT (CONT'D)

5.6 Installing Insulated Flexible Ducts (GSVH1K and GSHH3K models only) (cont'd)

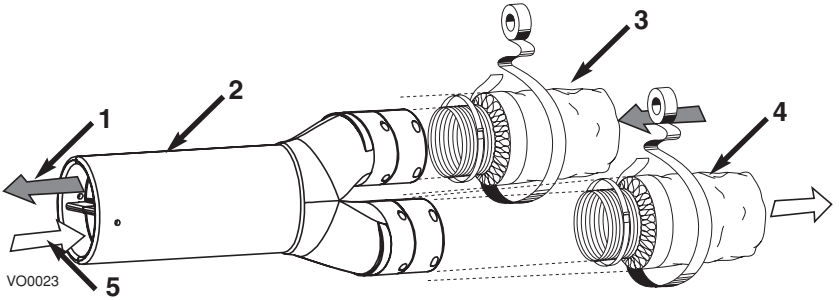
NOTE: If there is not sufficient space to install the Tandem transition®, both optional single exterior hood and AirDuo™ exterior hood must be used. Identify each insulated duct. For fresh air from outside duct, use the blue sticker dots (one dot at each end). For exhaust air to outside duct, use the red sticker dots (one dot at each end). Then, go to Point 5.6.2 and then go to Section 5.8.

5.6.1 Connection to Tandem® transition

For each duct, pull back the insulation to expose the interior flexible duct. Connect the interior flexible duct to the smaller part of the Tandem® transition (5" oval) using a 24" tie wrap.

NOTE: If you are using a 6" diameter insulated duct, use the bigger part of the Tandem® transition (6" oval).

Pull the insulation over the joint. Pull the vapor barrier over the insulation. Apply duct tape gently to the joint in order to make an airtight seal. See figure below.



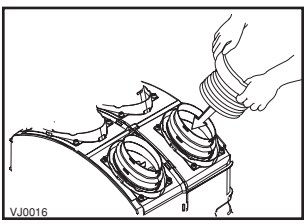
1) Stale airflow direction
2) Tandem® transition
3)EXHAUST AIR TO OUTSIDE duct (red dot)
4) FRESH AIR FROM OUTSIDE duct (blue dot)
5) Fresh airflow direction

Identify each insulated duct. For fresh air from outside duct, use the blue sticker dots (one dot at each end). For exhaust air to outside duct, use the red sticker dots (one dot at each end). **Be careful to identify the exhaust air to outside duct (red dot) at the upper section of the transition.**

5.6.2 Connection to the 5" to 6" oval ports of the unit

Use the following procedure for connecting the insulated flexible ducts to the 5" to 6" oval ports of the unit. (*EXHAUST AIR TO OUTSIDE* and *FRESH AIR FROM OUTSIDE*).

1. Pull back the insulation to expose the flexible duct.

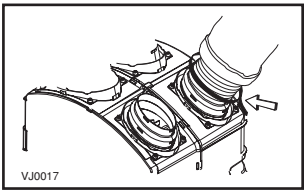


5. INSTALL THE UNIT (CONT'D)

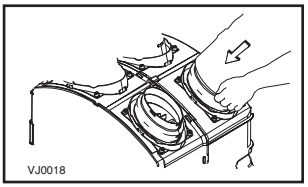
5.6 INSTALLING INSULATED FLEXIBLE DUCTS (GSVH1K AND GSHH3K MODELS ONLY) (CONT'D)

5.6.2 CONNECTION TO THE 5" TO 6" OVAL PORTS OF THE UNIT (CONT'D)

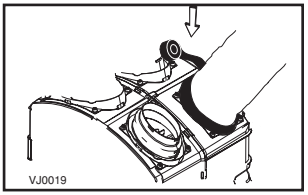
2. Connect the interior flexible duct to the port using a 24" tie wrap.



3. Pull the insulation over the joint and tuck it between the inner and outer rings of the port. Pull the vapor barrier over the insulation and over the outer ring of the port.



4. Apply duct tape gently to the joint in order to make an airtight seal.

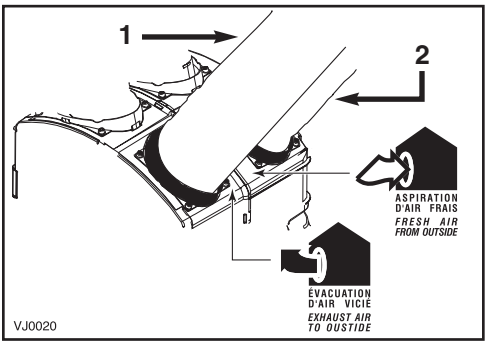


CAUTION

Avoid compressing the insulation when you pull the tape tightly around the joint. Compressed insulation loses its insulation properties and causes water dripping due to condensation on the exterior surface of the duct.

5. Repeat steps 1 to 4 for all insulated ducts.

See figure below to find the *EXHAUST AIR TO OUTSIDE* and *FRESH AIR FROM OUTSIDE* oval ports on the top of the unit. **Be careful to connect the right insulated duct to its corresponding port.**



1) Red dot duct
2) Blue dot duct

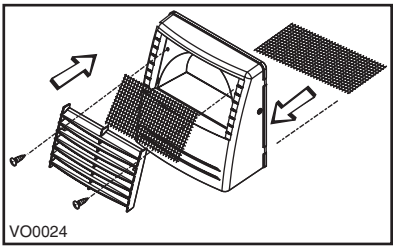
5. INSTALL THE UNIT (CONT'D)

5.7 Installing AirDuo™ Exterior Hood* (GSVH1K and GSHH3K models only)

5.7.1 Assembling AirDuo™ Exterior Hood

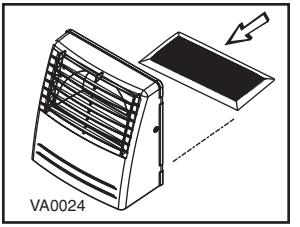
AirDuo™ exterior hood requires assembly. Assemble the top metal screen, the plastic grille and the bottom metal screen to the dual exterior hood. Use provided screws. See illustration beside.

*Patent pending

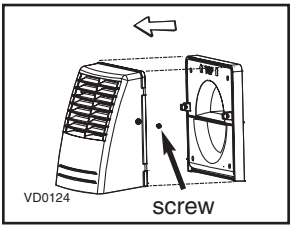


5.7.2 Optional Alpine/pine Filter

The special design of this filter makes it much more efficient to catch spores and their particles during intensive pollen season. Using this optional fine mesh filter will extend the life expectancy of your prefilter. To install it, remove the bottom metal screen of the AirDuo™ exterior hood and replace it by the optional Alpine/pine filter. See illustration beside. (Alpine/pine filter part number: ACCGSUP5)

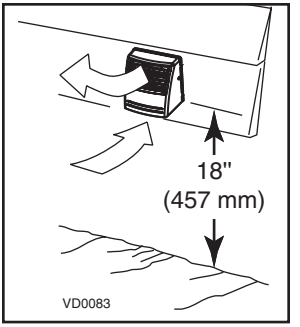


During pollen season, or as needed, remove the assembled hood from its backplate by removing its 2 retaining screws. Then, slide out the Alpine/pine filter and clean it under water. Let dry before reinstalling it on the assembled hood. Reinstall the hood on its backplate.



5.7.3 Locating the AirDuo™ Exterior Hood

The AirDuo™ exterior hood must be installed at a minimum distance of 18" (457 mm) above the ground. See illustration.



⚠ WARNING

Make sure this hood is at least 3' (0.9 m) away from any of the following:

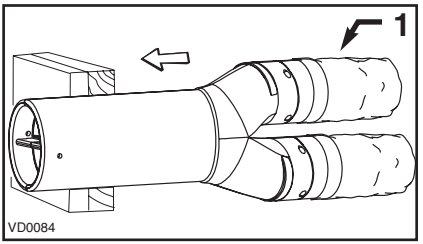
- **High efficiency furnace vent.**
- **Gas meter exhaust, gas barbecue-grill.**
- **Any exhaust from a combustion source.**
- **Garbage bin and any other source of contamination.**

5. INSTALL THE UNIT (CONT'D)

5.7 INSTALLING AIRDUO™ EXTERIOR HOOD* (GSVH1K AND GSHH3K MODELS ONLY) (CONT'D)

5.7.4 CONNECTING TANDEM® TRANSITION TO AIRDUO™ EXTERIOR HOOD

1. Using a jigsaw, cut a 6" diameter hole in the exterior wall and insert the Tandem® transition through this hole.



1) EXHAUST AIR TO OUTSIDE duct

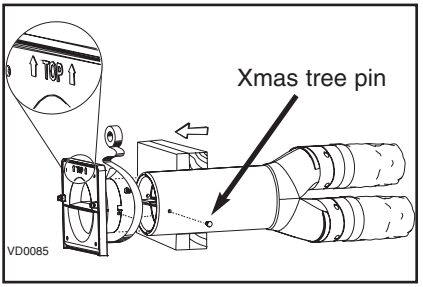
CAUTION

The Tandem® transition must be inserted in such a way that the *EXHAUST AIR TO OUTSIDE* duct will be located on the top.

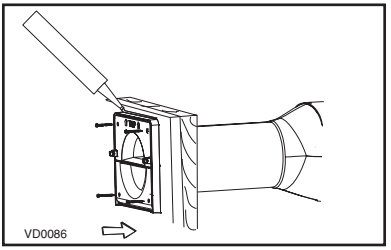
CAUTION

The exterior backplate must be installed with the word ''TOP" pointing upward.

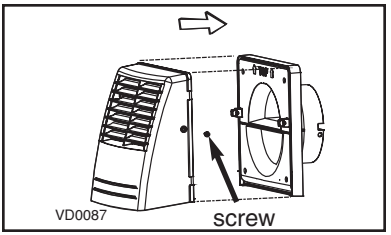
2. Join the end of the Tandem® transition to the rear of the exterior backplate. Secure with two Xmas tree pins and seal properly with duct tape.



3. Attach the exterior backplate to the exterior wall. Using four provided screws, fix it to the wall. Seal the backplate with caulking, as shown.



4. Snap the assembled AirDuo™ exterior hood on its backplate and secure with two provided screws. Go to Section 5.9.

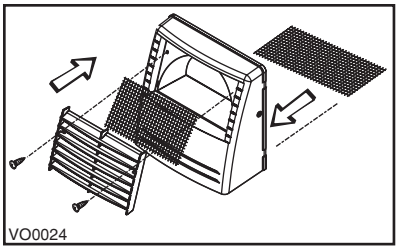


5. INSTALL THE UNIT (CONT'D)

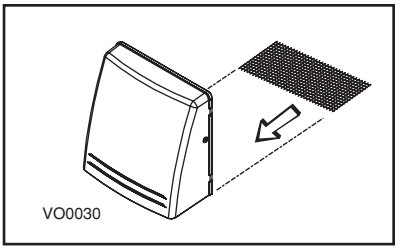
5.8 Installing Two Exterior Hoods* (GSVH1K and GSHH3K models only)

5.8.1 Assembling Exterior Hoods

Both exterior AirDuo™ hood and optional exterior single hood require assembly. Assemble the top metal screen, the plastic grille and the bottom metal screen to the AirDuo™ exterior hood*. Use provided screws. Slide the bottom metal screen into the single exterior hood base. See following illustrations.
*Patent pending



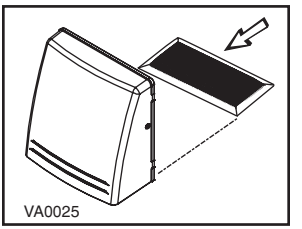
AirDuo™ exterior hood



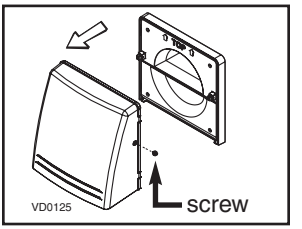
Optional single fresh air inlet exterior hood

5.8.2 Optional Alpine/pine Filter

The special design of this filter makes it much more efficient to catch spores and their particles during intensive pollen season. Using this optional fine mesh filter will extend the life expectancy of your prefilter. To install it, remove the bottom metal screen of the single exterior hood and replace it by the optional Alpine/pine filter. See illustration beside. (Alpine/pine filter part number: ACCGSUP5)



During pollen season, or as needed, remove the assembled hood from its backplate by removing its 2 retaining screws. Then, slide out the Alpine/pine filter and clean it under water. Let dry before reinstalling it on the assembled hood. Reinstall the hood on its backplate.



5.8 INSTALLING TWO EXTERIOR HOODS* (GSVH1K AND GSHH3K MODELS ONLY) (CONT'D)

5.8.3 LOCATING THE AIRDUO™ EXTERIOR HOOD

⚠ WARNING

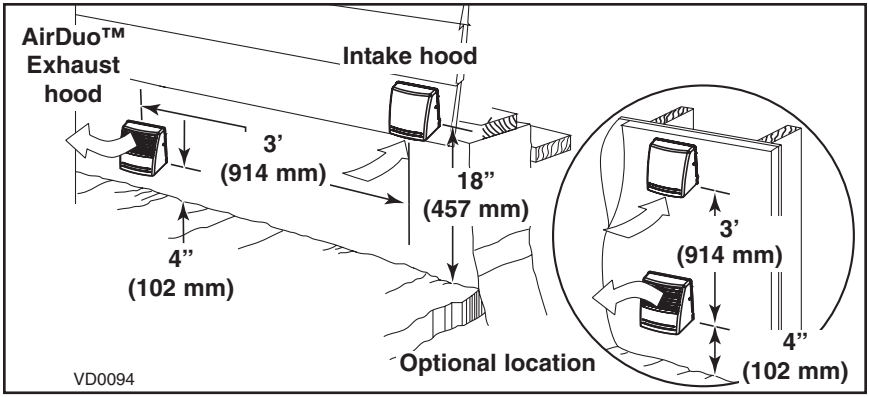
Make sure this hood is at least 3' (0.9 m) away from any of the following:

- **High efficiency furnace vent.**
- **Gas meter exhaust, gas barbecue-grill.**
- **Any exhaust from a combustion source.**
- **Garbage bin and any other source of contamination.**

CAUTION

Due to its particular design, the AirDuo™ exterior hood must be used only for exhaust hood when performing an installation using 2 exterior hoods. Use the optional single fresh air intake exterior hood for supply air.

The AirDuo™ exterior hood must be installed at a minimum distance of 4 inches (102 mm) from the ground, and the optional single fresh air intake exterior hood must be installed at a minimum distance of 18 inches (457 mm) from the ground. Also, a minimum distance of 3 feet (0.9 m) is required between the hoods to avoid cross-contamination.See illustration below.



5.8.4 CONNECTING INSULATED DUCTS TO EXTERIOR HOODS

CAUTION

Make sure the insulated ductwork's vapor barrier does not tear during installation.

1. For each exterior hood, using a jigsaw, cut a 6" diameter hole (if using 5" dia. insulated duct) or a 7" diameter hole (if using 6" dia. insulated duct) in the exterior wall. Identify each insulated duct. For fresh air from outside duct, use the blue sticker dots (one at each end). For exhaust to outside duct, use the red sticker dots (one dot at each end). Run each flexible duct through its respective hole in the wall.

5. INSTALL THE UNIT (CONT'D)

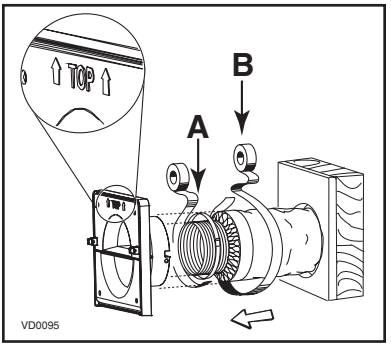
5.8 INSTALLING TWO EXTERIOR HOODS* (GSVH1K AND GSHH3K MODELS ONLY) (CONT'D)

CAUTION

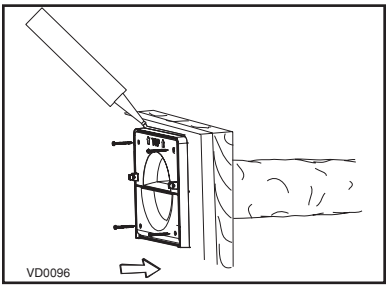
The exterior backplate must be installed with the word ''TOP'' pointing upward.

5.8.4 CONNECTING INSULATED DUCTS TO EXTERIOR HOODS (CONT'D)

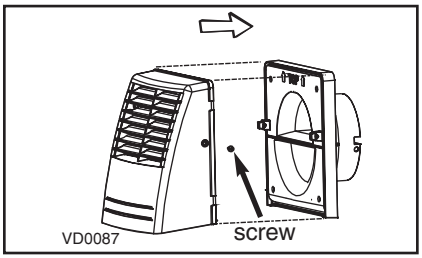
2. Pull back the insulation to expose the flexible duct and, using a tie wrap, attach it to the inner ring of the exterior backplate (5" ring for the 5" insulated ducts or 6" ring for the 6" insulated ducts). Carefully seal with duct tape (**A**). Pull the insulation over the joint. Pull the vapor barrier over the insulation and over the outer ring of the exterior backplate. Apply gently duct tape to the joint making an airtight seal (**B**).



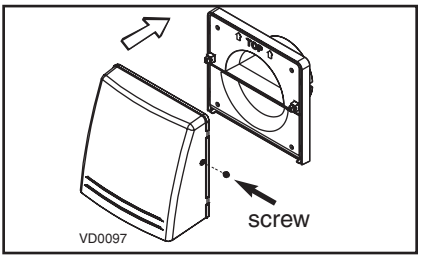
3. Attach the exterior backplate to the exterior wall. Using four provided screws, fix it to the wall. Seal the backplate with caulking, as shown.



4. Snap each assembled exterior hood on its respective backplate location and secure each of them with their 2 provided screws.



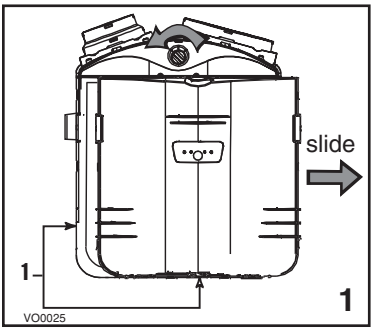
AIRDUO™ EXTERIOR HOOD



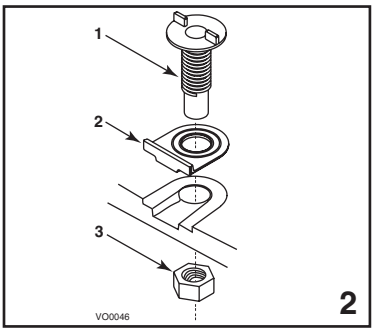
SINGLE EXTERIOR FRESH AIR INTAKE HOOD

5. INSTALL THE UNIT (CONT'D)

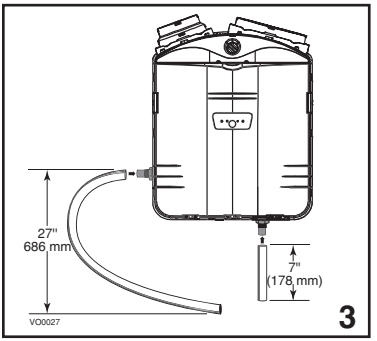
5.9 CONNECTING THE DRAIN (GSHH3K MODEL ONLY)



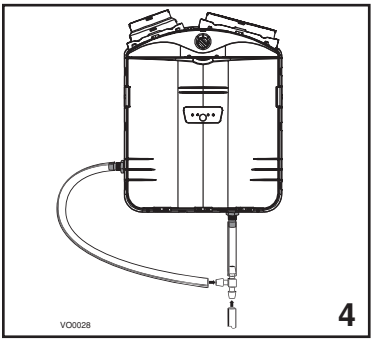
1. Remove the door by turning the switch knob to the OFF position (to unlock the door).Then, unlatch the door, open and slide it out of its hinge. Slide out the core assembly to access the 2 drain fitting hole locations (**1**). Punch out the holes.



2. Hand tighten the two plastic drain fittings (**1**) using the gaskets (**2**) and nuts (**3**) as shown. (Items **1** to **3** are provided).

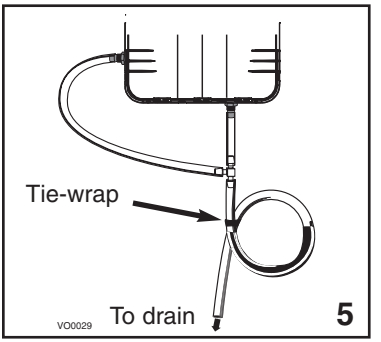


3. Cut two sections of provided plastic tubing; one 7" (178 mm) long and one 27" (686 mm) long, and attach them to each drain fitting as shown.



4.Join these two sections to the ''T" junction and main tube as shown.

5. Make a water trap loop in the tube to prevent the unit from drawing unpleaseant odors from the drain source. Make sure this loop is situated BELOW the ''T" as shown. This will prevent water from being drawn back up into the unit in case of negative pressure. Run the tube to a floor drain or an alternative drain pipe or pail. Be sure there is a slight slope for the run-off.



5.10 Low Temperature Applications Below Freezing (32°F or 0°C)

All Models

CAUTION

When the ambient temperature surrounding the unit falls below freezing (32°F or 0°C), all units must run continuously to prevent condensation.

For GSHH3K Heat recovery Model ONLY

CAUTION

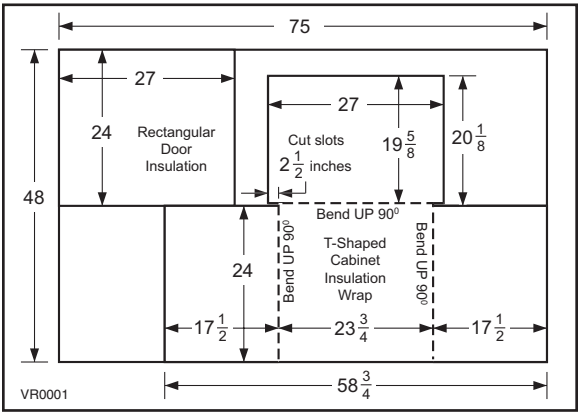
- **When installing an GSHH3K HEPA Filtration, Fresh Air and Heat Recovery model, make sure the unit's cabinet and its drain line are protected from freezing.**
- **Install a drip pan if required by local code.**

General:

- Insulate the cabinet body using a 2" thick blanket insulation or by placing the unit in an insulated enclosure formed from 2" thick fiberglass insulation board.
- Make sure that all ductwork is insulated.
- Carefully seal all of the unit's ports with duct tape to prevent air leakage.
- Install a heating cable along the drain line for freeze protection.
  - Use a UL listed heat tape in accordance to the manufacturer's instruction.
  - Because of the additional weight of the heating tape on drain line, secure the plastic tubing to each drain fitting using hose clamps (not provided).
  - Make sure the heat tape is rated between 3 to 6 watts per foot at 120 V.
  - Protect the circuit the heat tape is connected to with a ground-fault circuit breaker.
  - Cover the drain line and heating cable with 1/2 inch thick insulation.
  - If you need to extend the drain line beyond the 9 foot length supplied with the unit, use copper pipe.

5.10.1 Blanket Insulation

If fabricating an insulation blanket, use a 2" thick hot water heater blanket cut as shown.

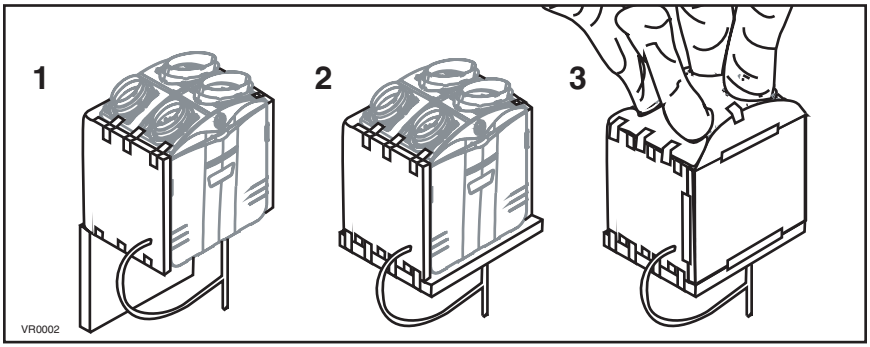


5. INSTALL THE UNIT (CONT'D)

5.10 FOR LOW TEMPERATURE APPLICATIONS BELOW FREEZING (32°F OR 0°C) (CONT'D)

5.10.1 BLANKET INSULATION (CONT'D)

Wrap the unit as shown. Make sure that all joints are fully sealed to prevent cold air penetration between the insulation and the unit.

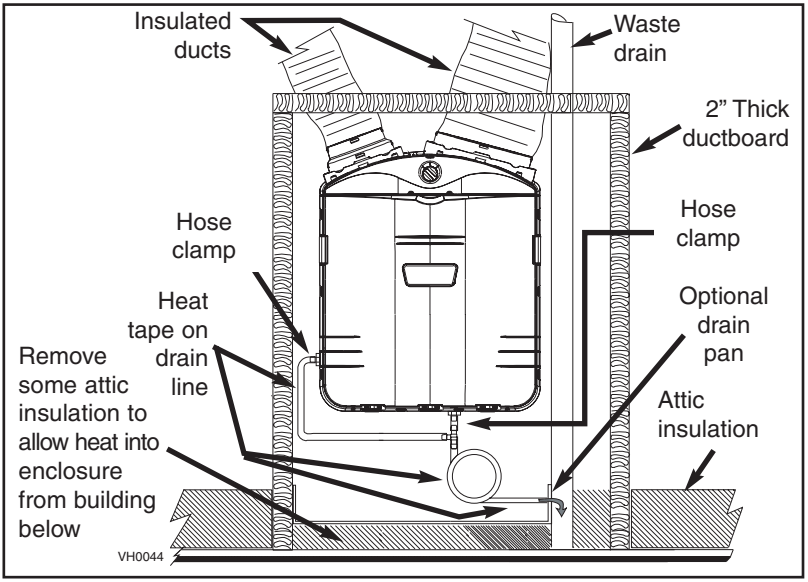


NOTES: 1. Holes must be done in the insulation blanket to allow drain line installation for model GSHH3K.
2. **MAKE SURE** to use excess insulation to cover the top of unit and its ports.

5.10.2 DUCT BOARD INSULATED ENCLOSURE

If fabricating an enclosure from 2" fiberglass duct board, make sure that the enclosure is thightly sealed.

When possible have the waste disposal point within the confines of the enclosure to expedite water removal.

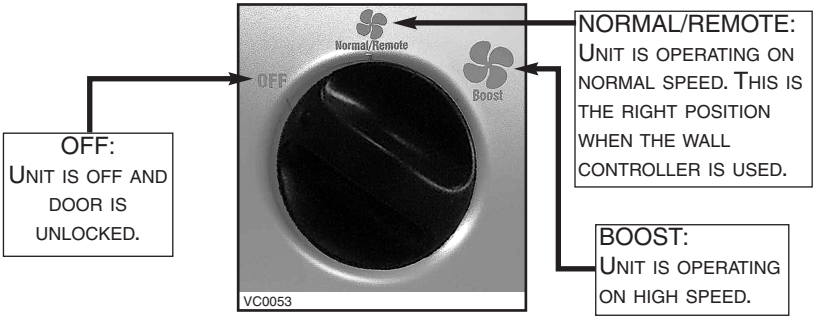


Cut away view with the duct board enclosure door removed.

6. CONTROLS

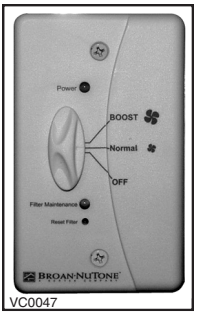
6.1 Main switch

All units are equipped with a 3-position main switch, located on the front panel. The unit is intented for use with a wall controller (provided, see below). The main switch is to remain in either the “OFF” or “Normal/Remote” modes ONLY. The “Normal/Remote” mode allows the homeowner to operate the product from the wall controller, typically mounted near a thermostat or other convenient location.

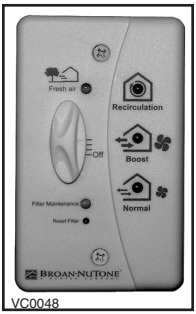


6.2 Wall Controllers

There are two wall controllers available: ACCGSC1 control (intended for GSFH1K and GSVH1K models only) and ACCGSC3 control (intended for GSHH3K model only).



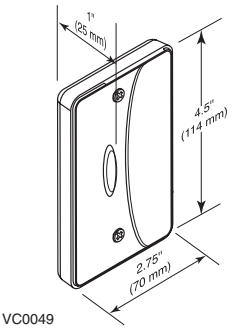
ACCGSC1
CONTROLLER



ACCGSC3
CONTROLLER

6.3 Dimensions

Dimensions are the same for both models.



6. CONTROLS (CONT'D)

6.4 Installation of the Wall Controllers (both models)

⚠ WARNING

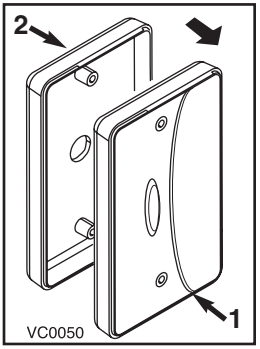
Always disconnect power to the unit before making any connections. Failure in disconnecting power could result in electrical shock or damage of the wall control or electronic module inside the unit.

CAUTION

Never install more than one optional wall controller per unit.

1. Determine a convenient location for the control.

2. Remove the controller's cover plate (**1**). If you prefer to have your main control mounted on an approved outlet box or an approved mounting bracket (not included), discard the backplate (**2**).



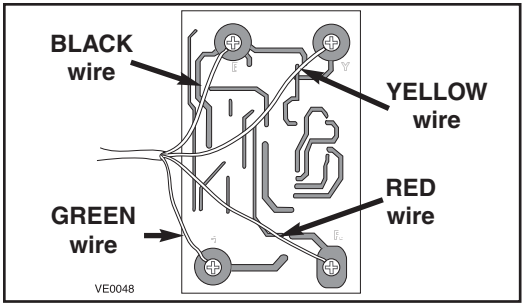
3. Route the control cable from the unit to the wall controller. Use the provided cable (4-conductor, 24-gauge, Solid, UL Listed, CMP type, 40' long).
NOTE: For wall controller efficiency, the maximum wire length is 100' (30.5 m). If needed, add another length of same wire type. Use caution not to cross the wire colors or create any short.

⚠ WARNING

To avoid risk of electrical shocks, never install another wire in the same electrical box than the one for the optional wall controller.

4. Take one end of the provided cable and pass it through the wall control backplate (or outlet box or mounting bracket).

5. Splice back this end of the cable to access to the four wires. Remove the insulated sleeve of each wire ends. Make a loop with each bare end wire to hook them to their corresponding screw. Connect YELLOW wire to ''Y" screw, RED wire to "R" screw, GREEN to "G" screw and BLACK to ''B" screw. See illustration below.



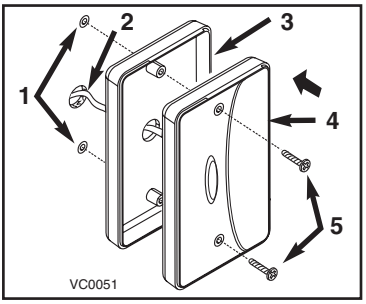
⚠ WARNING

Make sure the wires don't short circuit between themselves or by touching any other components on the wall controller.

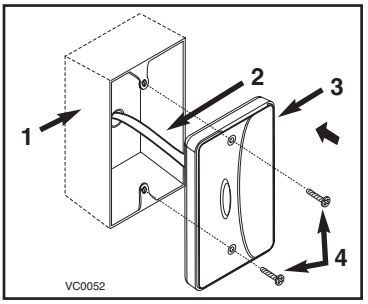
6. CONTROLS (CONT'D)

6.4 INSTALLATION OF THE WALL CONTROLLERS (BOTH MODELS) (CONT'D)

6. Reinstall the cover plate. Using provided wall anchors and provided screws, mount the wall controller on the wall. Use only 2 screws to mount on outlet box. See illustrations below.



1) Wall anchors
2) Control cable
3) Control backplate
4) Control
5) Screws



1) Outlet box
2) Control cable
3) Control
4) Screws

CAUTION

Keep controller low voltage wiring at least 1' (305 mm) away from motors, lighting ballast, light dimming circuit and power distribution panels. Do not route control wiring along house power wiring. Avoid poor wiring connections. Failure to follow these practices can introduce electrical interference, which can cause erratic control operations.

7. Go to the unit. Using a small rod or drill bit, pierce a hole through the unit at the end of the wire channel. (See photo below.) Splice back the end of the cable to access the four wires. Remove the insulated sleeve of each wire ends. Insert the end of the cable through the unit, using the small hole previously done.

6.4 INSTALLATION OF THE WALL CONTROLLERS (BOTH MODELS) (CONT'D)

8. Looking inside the right side front port, you gain access the field wiring terminals for the controller. Remove the side door located on the electrical box and punch out its knock out. Run the cable through the knock-out hole and connect each wire to their corresponding terminal (YELLOW in "Y", RED in "R", GREEN in "G" and BLACK in "B").
NOTE: Push forward slightly on the little tabs (**1**) to ease insertion of each wire. See photo below.

VE0049

9. Reinstall the side door on the electrical box and install the 8" oval port on the unit.

10. Route the wire through its channel and reinstall the front panel on the unit. See photo below.

VD0089

11. Plug the unit.

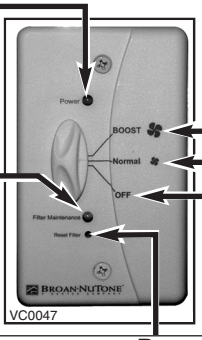
NOTE: When using the wall controller, the <u>main switch on the unit must always be positioned to NORMAL/REMOTE.</u>

6. CONTROLS (CONT'D)

6.5 OPERATING ACCGSC1 CONTROLLER

POWER INDICATOR:
LIGHTS UP WHEN SLIDE SWITCH IS IN THE NORMAL OR BOOST POSITION.

FILTER MAINTENANCE INDICATOR:
FLASHES EVERY MINUTE TO INDICATE IT IS ON DUTY.
FLASHES EVERY SECOND WHEN IT IS TIME TO REPLACE PREFILTER.
LED STAYS LIT WHEN IT IS TIME TO REPLACE FILTER AND PREFILTER.



BOOST:
UNIT IS OPERATING AT ITS HIGH SPEED.

NORMAL:
UNIT IS OPERATING AT ITS NORMAL SPEED.

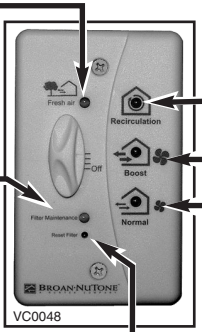
OFF:
UNIT IS OFF.

RESET FILTER HOLE:
ONCE THE MAINTENANCE DONE, RESET THE FILTER MAINTENANCE INDICATOR BY CAREFULLY INSERTING A SMALL ROD (EG: PAPER CLIP) IN THE RESET FILTER HOLE, FOR 1 SECOND. THE FILTER MAINTENANCE INDICATOR WILL TURN OFF. REFER TO THE FILTER MAINTENANCE RECOMMENDATIONS IN SECTION 7.

6.6 OPERATING ACCGSC3 CONTROLLER

FRESH AIR INDICATOR:
LIGHTS UP WHEN SLIDE SWITCH IS IN THE NORMAL OR BOOST POSITION.

FILTER MAINTENANCE INDICATOR:
FLASHES WHEN IT IS TIME TO REPLACE PREFILTER AND WASH CORE AND CORE FILTERS.
LED STAYS LIT WHEN IT IS TIME TO REPLACE FILTER AND PREFILTER AND WASH CORE AND CORE FILTERS.



RECIRCULATION INDICATOR:
LIGHTS UP WHEN SLIDE SWITCH IS ON RECIRCULATION. UNIT IS OPERATING ON NORMAL SPEED, AND NO FRESH AIR IS BROUGHT IN.

BOOST INDICATOR:
LIGHTS UP WHEN SLIDE SWITCH IS ON BOOST POSITION. UNIT IS OPERATING AT HIGH SPEED.

NORMAL INDICATOR:
LIGHTS UP WHEN SLIDE SWITCH IS ON NORMAL POSITION. UNIT IS OPERATING AT NORMAL SPEED.

RESET FILTER HOLE:
ONCE THE MAINTENANCE DONE, RESET THE FILTER MAINTENANCE INDICATOR BY CAREFULLY INSERTING A SMALL ROD (EG: PAPER CLIP) IN THE RESET FILTER HOLE, FOR 1 SECOND. THE FILTER MAINTENANCE INDICATOR WILL TURN OFF. REFER TO THE FILTER MAINTENANCE RECOMMENDATIONS IN SECTION 7.

7. MAINTENANCE

⚠ WARNING

Risk of electrical shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source.

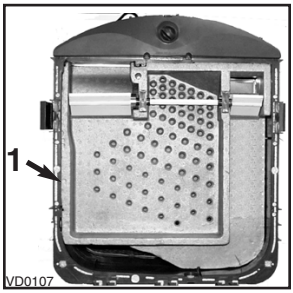
7.1 Semi-annual Maintenance (essential)

Your wall controller (ACCGSC1 or ACCGSC3) tells you when to perform this maintenance when the **Filter Maintenance light is flashing**. Otherwise, maintenance should be performed every six months to ensure proper operation for years to come. Follow these steps:

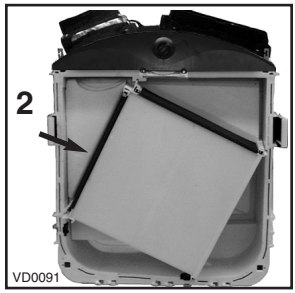
1. Turn switch knob to OFF to unlock the door.

2. Unlatch the door and open it. While holding the door, slide it to the right to disengage it from the unit. Clean the inner side of the door with a clean damp cloth, then wipe with a dry one.

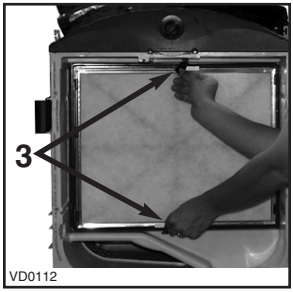
3. Slide out the air diffuser (model GSVH1K only), the recovery core module (model GSHH3K only) and the filter cartridge from the unit.



1) Air diffuser



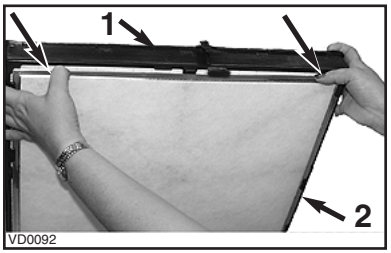
2) Recovery core module

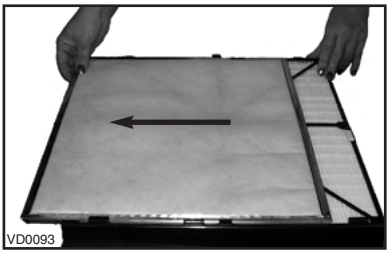


NOTE: To remove the filter cartridge, pull on its tabs (**3**).

7.1 SEMI-ANNUAL MAINTENANCE (ESSENTIAL) (CONT'D)

4. Using your thumbs, push on the prefilter side to disengage it from the filter cartridge. Then, slide it out of the filter cartridge and discard it. Install the new prefilter by reversing this operation.





1) Filter cartridge
2) Prefilter

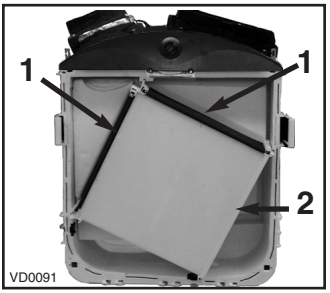
5. Clean the inside walls of the unit with a clean damp cloth, then wipe with a dry one.

For HEPA Filtration and Fresh Air Ventilation model GSVH1K only

Clean the air diffuser with a clean damp cloth, then wipe with a dry one. Once the air diffuser completely dry, slide it back into the unit.

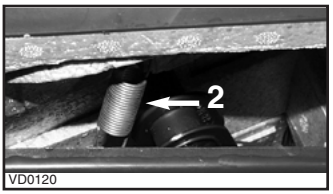
For HEPA Filtration, Fresh Air and Heat Recovery model GSHH3K only

Wash the two core filters (item **1**) under hot water with mild soap. Soak the core (item **2**) in a solution of warm water and mild soap. Rinse the core filters and the core thoroughly and let dry before reinstalling them in the unit.



1) Core filters
2) Core

NOTE: Make sure the damper spring (**1**) is still inside the left front port opening before reinstalling the recovery module.



1) Damper spring

6. Reinstall the door, close the latches and turn ON the switch knob to its previous position.

7. If your unit is equipped with a wall controller (ACCGSC1 or ACCGSC3), reset the filter maintenance indicator by inserting a small rod (eg: paper clip end) into the reset filter hole of the optional wall control. Press lightly until the Filter Maintenance indicator light turns off.

7.2 Annual Maintenance (essential)

Your unit is equipped with a wall controller (ACCGSC1 or ACCGSC3), which tells when to perform maintenance when the **Filter Maintenance light stays ON**. Otherwise, this maintenance must be performed once a year to ensure your unit proper operation for years to come. Proceed as the Semi-annual Maintenance (Section 7.1), but instead of replacing the prefilter (point 4), discard the complete HEPA Filter cartridge (including prefilter). Install a new HEPA filter cartridge (or a new pleated filter cartridge) with a new prefilter on it.

7.3 Master Reset (ACCGSC1 and ACCGSC3 Controllers)

Use the master reset only if you replace the filters before the annual maintenance indicator is on. By inserting a small rod (eg: paper clip end) during five seconds and more into the reset filter hole of the wall controller, a master reset will be done and both semi-annual and annual maintenance filter time clocks are reset.

ACCGSC1 Control: The filter maintenance indicator will flash 1/4 second.

ACCGSC3 Control: If the wall control is in "Off" position, "Fresh air" LED indicator will flash for 1 second.

If the wall control is in "Normal" or "Boost" position, the unit motor, the "Fresh air" light indicator and fan speed LED indicator ("Normal" or "Boost") will turn off for 3 seconds.

If the wall control is in "Recirculation" position, the "Recirculation" LED indicator and the unit motor will turn off for 3 seconds.

7.4 Optional Alpine/pine Filter

During pollen season, or as needed, remove the assembled hood from its back-plate by removing its 2 retaining screws. Then, slide out the optional Alpine/pine filter and clean it under water. Let dry before reinstalling it on the assembled hood. Reinstall the hood on its backplate.

8. TROUBLESHOOTING

PROBLEMS	SOLUTIONS
1.Unit does not start at Normal or Boost position.	• Check breaker or fuse in main distribution panel. • Check there is 120V at the electrical outlet. • Make sure the unit main switch is properly set in Normal or Boost position. • If a wall control (ACCGSC1 or ACCGSC3) is connected, disconnect control wire from the unit, then make sure the unit main switch is properly set in Normal or Boost position.
2. Unit does not run at Normal speed, but runs at Boost.	• If a wall control (ACCGSC1 or ACCGSC3) is used, disconnect control wire from the unit. Then, if the unit runs at Normal speed, check control wiring and wall control connections.
3. Unit is not operating as per the selected mode.	• Check if the unit main switch is in "Normal/Remote" position. • Check wall control wiring.
4. Wall control indicators do not work properly or not at all.	• Check wall control wiring.
5. On ACCGSC3 wall control only, one or two light indicators are flashing every second.	• Check if the unit main switch is in "Normal/Remote" position. • Check wall control wiring.

If the problem is still not solved, call your installer or the nearest approved Service Center. You can also reach our Customer Service Departments or Technical Support listed below.

Broan-NuTone LLC

- Customer Service Department:
  Telephone:1 800-558-1711
  Fax: 1 800 356-5862
- Technical Support:
  Telephone:1 800-637-1453
  Fax: 262-673 8709

NuTone Inc.

- Customer Service Department:
  Telephone:1 888-336-3948
  Fax: 1 888-336-6148
- Technical Support:
  Telephone:1 888-336-6151
  Fax: 1 888-873 2311

9. WARRANTY

BROAN·NUTONE™
A NORTEK COMPANY

WHOLE-HOUSE AIR FILTRATION SYSTEM

WARRANTY

Broan-NuTone warrants to the original consumer purchaser of its products, that such products will be free from defects for a period of two (2) years, from date of original purchase.

THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. BROAN-NUTONE WILL NOT BE HELD RESPONSIBLE FOR ANY CLAIMS OVER THE ORIGINAL PURCHASE PRICE OF A **BROAN-NUTONE WHOLE-HOUSE AIR FILTRATION SYSTEM**, NOR HELD RESPONSIBLE FOR SUBSEQUENT DAMAGE OR INCIDENT.

During the period stated above, Broan-NuTone will, at its opinion, repair or replace, without charge, any product or part which is found to be defective under normal use and service. THIS WARRANTY DOES NOT EXTEND TO ANY FILTER, PREFILTER OR CORE FILTERS (IF APPLICABLE). This warranty does not cover **a)** normal maintenance and service, **b)** any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repairs made by other than Broan-NuTone or **c)** a faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the 2-year period as specified for the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

BROAN-NUTONE'S OBLIGATION TO REPAIR OR REPLACE AT BROAN-NUTONE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. BROAN-NUTONE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.

In order to qualify for a warranty claim, the owner of a Broan-NuTone WHOLE-HOUSE AIR FILTRATION SYSTEM must have the model and serial number along with a proof of the original purchase date. In each case, costs for the removal of a defective part (and/or unit) and installation of a new or repaired one and travel costs are not covered by this warranty.

BROAN-NUTONE LLC, 926 W. S STATE ST, HARTFORD WI 53027 1 800-637-1453

NUTONE INC., 4820 RED BANK ROAD, CINCINNATI, OH 45227 1 888-336-6151